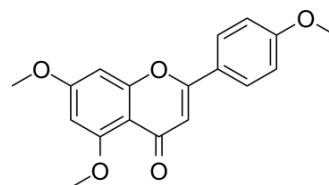


## 5,7,4'-Trimethoxyflavone

<b>Cat. No.:</b>	HY-N6818												
<b>CAS No.:</b>	5631-70-9												
<b>Molecular Formula:</b>	C <sub>18</sub> H <sub>16</sub> O <sub>5</sub>												
<b>Molecular Weight:</b>	312.32												
<b>Target:</b>	Apoptosis; Caspase; PARP												
<b>Pathway:</b>	Apoptosis; Cell Cycle/DNA Damage; Epigenetics												
<b>Storage:</b>	<table border="0"> <tr> <td>Powder</td> <td>-20°C</td> <td>3 years</td> </tr> <tr> <td></td> <td>4°C</td> <td>2 years</td> </tr> <tr> <td>In solvent</td> <td>-80°C</td> <td>6 months</td> </tr> <tr> <td></td> <td>-20°C</td> <td>1 month</td> </tr> </table>	Powder	-20°C	3 years		4°C	2 years	In solvent	-80°C	6 months		-20°C	1 month
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In solvent	-80°C	6 months											
	-20°C	1 month											



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (320.18 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	3.2018 mL	16.0092 mL	32.0184 mL
		5 mM	0.6404 mL	3.2018 mL	6.4037 mL
10 mM		0.3202 mL	1.6009 mL	3.2018 mL	
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.5 mg/mL (8.00 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (8.00 mM); Clear solution</li> </ol>				

### BIOLOGICAL ACTIVITY

<b>Description</b>	5,7,4'-Trimethoxyflavone is isolated from <i>Kaempferia parviflora</i> (KP) that is a famous medicinal plant from Thailand. 5,7,4'-Trimethoxyflavone induces apoptosis, as evidenced by increments of sub-G1 phase, DNA fragmentation, annexin-V/PI staining, the Bax/Bcl-xL ratio, proteolytic activation of caspase-3, and degradation of poly (ADP-ribose) polymerase (PARP) protein. 5,7,4'-Trimethoxyflavone is significantly effective at inhibiting proliferation of SNU-16 human gastric cancer cells in a concentration dependent manner <sup>[1]</sup> .	
<b>IC<sub>50</sub> &amp; Target</b>	Caspase-3	PARP

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## REFERENCES

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[1]. Kim H, et al. Induction of ER Stress-Mediated Apoptosis by the Major Component 5,7,4'-Trimethoxyflavone isolated from *Kaempferia parviflora* Tea Infusion. *Nutr Cancer*. 2018 Aug-Sep;70(6):984-996.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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